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## ABSTRACT OF THE DISCLOSURE

A medical diagnostic ultrasonic imaging system acquires image data for at least two frames at each of multiple positions, each frame identified with a respective phase of a physiological cycle. A multiphase 3-D or extended field of view data set is constructed from the image data. Then a plurality of images are generated from the multiphase data set. Each image is associated with a respective phase of the physiological cycle, and these images are displayed in sequence to a user.

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